

Name: Dr. SK. Chand Basha, FTE

Current Position:

Assistant Professor

Department of Zoology

Andhra Loyola College (Autonomous)

Vijayawada,

Andhra Pradesh, India



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I. Educational Qualifications:

S.No	Course	Subject (s)	University/ College	Percentage of Marks	Year of Completion
1.	PDF	Biotechnology	KLEF Deemed to be University, Guntur, A.P, India.	NA	2024
2.	Ph.D.	Zoology	Acharya Nagarjuna University, Guntur, A.P, India.	NA	2020
3.	M.Sc.	Zoology	Acharya Nagarjuna University, Guntur, A.P, India.	76.85 % (First Class with Distinction)	2010
4.	B.Sc.	B.Z.C (Botany, Zoology and Chemistry)	P.B. Siddhartha College of Arts and Science (Autonomous), Vijayawada, A.P, India.	90.8 % O (Outstanding) Grade	2008

➤ **Research theme: Computational Investigation of the Neuro modulatory role of Bio active compounds with Therapeutic and Drug discovery potential against Alzheimer's disease (AD).**

➤ **Fellowships Awarded:**

(i) **KLEF PDF Fellowship: 2022 - 2024**

(ii) **UGC – BSR (SRF): 2016 - 2019**

(iii) **UGC – BSR (JRF): 2014 - 2016**

➤ **Qualified Andhra Pradesh State Eligibility Test (AP SET 2013) for Assistant Professor / Lectureship in the Subject LIFE SCIENCES.**

II. Professional Experience: (Teaching and Research)

Teaching: 5 Years and 24 Days

Research: 2 Years and 16 Days

Total Experience: 5 Years and 24 Days.....

S.No	Position	Institution/Organization	Teaching (Subject(s) dealt) and Research	Administrative positions	Period
1.	Assistant Professor in Zoology (UG)	Andhra Loyola College (Autonomous) Vijayawada, Andhra Pradesh, India	Zoology (B.Sc stream)		13-09-2024 to Current
2.	Post – Doctoral Research Fellow (PDF)	Department of Biotechnology, KLEF Deemed to be University, Guntur, Andhra Pradesh, India.	Handling Teaching Classes and Labs (during PDF): Stream: B. Tech Biotechnology Courses: 1. Health care Biotechnology 2. Bio Analytical Techniques (BAT) Labs. Stream: B.Sc - Food Technology	-----	04-04-2022 to 19-04-2024

			<p>Course: 3. Food Biochemistry</p> <p>Stream: BCA</p> <p>Course: 4. IPR and Patent Laws.</p> <p>PDF Research work title: " Computational Investigation of Microglial TREM2 Receptor structures and its Molecular Docking Evaluation against Divergent Amyloid-β ($A\beta$) Ligands with Applications in Alzheimer's disease (AD) Therapeutics ".</p>		
3.	Assistant Professor in Zoology (U.G)	K.B.N. College (Autonomous), Vijayawada, Andhra Pradesh, India	Zoology (B.Sc stream)	<p>1. Head, Department of Zoology.</p> <p>2. Co convener -Research Promotion and Monitoring cell.</p> <p>3. Incharge – Criteria-III IQAC (Internal Quality Assurance cell).</p>	17-10-2020 to 26-03-2022

4.	Adhoc Lecturer in Zoology (U.G.)	P.B. Siddhartha College of arts and science (Autonomous), Vijayawada, Andhra Pradesh, India	1.Zoology 2.Foundation Course 3.Environmental Studies 4.Values Education (B.Sc., B.Com., BA streams)	-----	22-06-2013 to 20-03-2014
5.	Adhoc Lecturer in Zoology	K.B.N. College (Autonomous), Vijayawada, Andhra Pradesh, India	Zoology (Intermediate - Bipc stream)		01-06- 2012 to 31-03 -2013

Teaching Experience at University and Undergraduate level:

4 Years, 2 Months and 23 Days.....

S.No	University / Institute	Position	Courses Handled	Stream	Period
1.	Andhra Loyola College (Autonomous) Vijayawada, Andhra Pradesh, India	Assistant Professor in Zoology (UG)	Zoology	(B. Sc stream)	13-09-2024 to Current
2.	KLEF Deemed to be University, Guntur, Andhra	Post- Doctoral Research Fellow (PDF)	1. Health care Biotechnology 2. Bio Analytical Techniques (BAT) Labs. 3. Food	1. B. Tech Biotechnology. 2. B.Sc - Food Technology. 3. BCA	04-04-2022 to 19-04-2024

	Pradesh, India.		Biochemistry 4. IPR and Patent Laws.		
3.	K.B.N. College (Autonomous), Vijayawada, Andhra Pradesh, India	Assistant Professor in Zoology (U.G)	Zoology	B.Sc	17-10-2020 to 26-03-2022
4.	P.B. Siddhartha College of arts and science (Autonomous), Vijayawada, Andhra Pradesh, India	Adhoc Lecturer in Zoology (U.G.)	1.Zoology 2.Foundation Course 3.Environmental Studies 4.Values Education	B.Sc., B.Com. BA.	22-06-2013 to 20-03-2014

➤ **NEET Experience**

S.No	Position held	Institute	Courses taught	Period
1.	Senior Lecturer in Zoology	Sri Chaitanya co-ed junior college, Vijayawada, Andhra Pradesh, India	Taught Zoology – NEET, EAPCET and IPE (Junior and Senior Bipe)	16 - 01 - 2021 to 26 - 02 - 2022

III. PDF Research:

PDF Research work title: "Computational Investigation of Microglial TREM2 Receptor structures and its Molecular Docking Evaluation against Divergent Amyloid- β ($A\beta$) Ligands with Applications in Alzheimer's disease (AD) Therapeutics".

PDF Research Theme: Neurochemical Pathways of Alzheimer's disease.

My objective of the research is to unearth novel pathophysiological mechanisms in Alzheimer's disease (AD). Currently my research focused on the role of Triggering receptor expressed on myeloid cells 2 (**TREM2**) of microglial cells of CNS. TREM2 receptors facilitates phagocytosis of $A\beta$ components, but its signalling mechanism is still obscure, which in turn motivated me to explore the same. A novel hypothesis has been proposed by us regarding the amelioration of $A\beta$ degradation by Triggering receptors expressed on myeloid cells 2 (TREM2) and the same got published in a Q1 Journal – Journal of Alzheimer's disease (JAD). To test our hypothesis, currently I am utilising various computational tools: **Molecular Modelling, Molecular Docking and Molecular Dynamic simulation (MDS)** to understand the ameliorating ability of TREM2 receptors with respect to various $A\beta$ ligands. **ITASSER** and **AlphaFold** servers are employed for 3D structural elucidation of TREM2, for protein – protein docking: **ClusPro** and **HawkDock** servers are utilised and **Gromax** for MD Simulation studies.

IV. PhD Research:

Title of the Ph.D. Thesis: 'Studies on Evaluation of Geographical Influence on the Production of α -Amylase by the Coringa Mangroves Actinomycetes'

Highlights of the Ph.D. Research work:

- The Hypothesis 'Impact of extreme transitional conditions of marine – terrestrial interface- unstable substratum, hyper salinity, daily tidal fluctuations and anaerobic conditions may be influenced by the geographical distance from the shore and in turn influences the industrial enzyme bioactivity of mangroves Actinomycetes' is the crux point for my Ph.D.
- Accordingly, 6 different geographical soil samples (A6 to A1) were collected in Coringa Mangroves (Sample location) with ~ 100 m distance between and amongst different soil samples with A6 as the extreme soil sample which was collected near the shore and A1 as the inward soil sample which is away from the shore.

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- Collected soil samples were subjected to standard protocol - Serial dilution, spread plated and incubated in ISP 4 plates, suspicious colonies were purified and subjected to primary screening for α - amylase and the potential colonies were subjected to secondary screening (production). The production studies suggests that **A₅-132135** as the potential strain and the **A₂-130305** as the second best strain.
 - Comparative optimization studies based on cumulative data of the media employed (ISP 2, ISP 3 and ISP 4) suggests that ISP 4 medium was favourable with cumulative value of 24.2 U/ml .
 - Results were in partial agreement with the proposed Hypothesis with both the extremeness and favourability influences the bioactivity in the way of **A₅-132135** (ANUKCJV1) as the first best potential strain and **A₂-130305** (ANUKCJV2) as the second best potential strain. Sequences of the same were deposited with the NCBI with accession codes ANUKCJV1 - MH973320 and ANUKCJV2 - MH973321.
 - Docking studies conducted to ascertain the potential α - amylase enzyme inhibitor, results suggest that Myricetin found to be the potential ligand.

Experience in Technical and Instrumentation Handling skills:

i. Dry Lab skills:

- **Computational tools (Modelling, Docking and Molecular dynamic simulation techniques)**
- **Machine Learning tools: Supervised and Unsupervised learning etc.....**
- **Exome Sequencing: BWA-MEM....**
- **Programming skills: Python language**

ii. Wet lab skills:

- Cell Culture techniques, Blotting techniques, PCR and Relevant Molecular Biology techniques, Basic Microbiology tools and techniques.

iii. Internship completed: 01

- Successfully completed Internship (AICS SUMMER INTERNSHIP 2023) in **Artificial intelligence (AI) & Machine Learning (ML)**, work titled "**Prediction of Alzheimer's disease using real time survey data conducted on a memory test**" from EMPIEZO AI Concept studio.

V. Academic credentials:

Total Citations: 59

h-index: 3

i10-index: 2

Google scholar Link: <https://scholar.google.com/citations?hl=en&user=s4MD7nwAAAAJ>

Online Academic Links:

Orcid ID - <https://orcid.org/0000-0003-4848-1184>

Dr. Basha's Biology Tutorial You tube:

<https://www.youtube.com/c/DrChandBashaShaik>

Research Gate - https://www.researchgate.net/profile/Sk_Chand_Basha

Web of Science ResearcherID - <http://www.researcherid.com/rid/B-8762-2019>

Scopus Author ID - <https://www.scopus.com/authid/detail.uri?authorId=57201733714>

Linkedin - www.linkedin.com/in/dr-basha-motivation

VI. Publications: 19

➤ Journal Publications:

1. **SK Chand Basha and Mekala Janaki Ramaiah (2024), Computational Examination of Microglial TREM2 Structure and its Molecular Docking Analysis against Amyloid- β (A β) Ligands with Therapeutic Applications in Alzheimer's Disease (AD). Acta Scientific Neurology, Vol. 7, Issue 10, Pages. 21-52. DOI: 10.31080/ASNE.2024.07.0777. (First and Corresponding author).**

2. **SK Chand Basha*, Mekala Janaki Ramaiah and Jagannatha Rao Kosagisharaf (2023), Untangling the role of TREM2 in conjugation with Microglia in neuronal dysfunction: A hypothesis on a novel pathway in pathophysiology of Alzheimer's disease. J Alzheimers Dis. Vol. 94 (s1): S319-S333. doi: 10.3233/JAD-221070. PMID: 36683512; PMCID: PMC10473115. (First and Corresponding author). [Q1 Journal with Impact factor 4.160]. (Scopus and Web of Science Indexed).**

3. **SK Chand Basha and Mekala Janaki Ramaiah (2024), Computational Docking Analysis of APOE-TREM2 Crosstalk with Therapeutic implications in Alzheimer's disease (AD). [Selected for the Conference Fellowship for the Alzheimer's Association**

International Conference 2024 - AAIC 2024]. Conference abstract accepted for Publication in the journal - Alzheimer's and Dementia - Impact factor - 14.

4. S.K. Chand Basha, K.R.S. Sambasiva Rao and E. Venkatanagaraju (2021), Comparative Optimization Studies (ISP 4 Vs ISP 3 Vs ISP 2 Media) of Mangrovian Streptomyces pluripotens ANUKCJV1 for its α -Amylase Production and Geographical Correlation of Mangrovian Actinomycetes Strains. Eco. Env. & Cons. Vol. 27 (February Suppl. Issue), pp. (S49 - S58). (Scopus Indexed).

5. S.K. Chand Basha and T. Sambasiva Rao (2021), Coastal Lagoons, Estuaries and Coral Reefs: Vital Coastal Ecosystems Providing A Wide Array of Services and its Threats. Eco. Env. & Cons. Vol. 27 (October Supplement Issue) pp S176 - S182. (Scopus Indexed).

6. SK. Chand Basha, KRS. Sambasiva Rao, T. Sambasiva Rao, P. Chandra Sai, (2020), Homology Modelling of α - amylase; Its Molecular Docking by Flavonoids as Potential Ligands. Uttar Pradesh Journal of Zoology, 41(17), pp. 47-55. <https://mbimph.com/index.php/UPJOZ/article/view/1712>. (Web of Science Indexed).

7. SK Chand Basha (2018), An Overview on Global Mangroves Distribution. Indian Journal of Geo-Marine Sciences, Vol. 47 (04), pp. 766-772. <http://nopr.niscpr.res.in/handle/123456789/44254>. (Scopus and Web of Science Indexed).

8. SK. Chand Basha, Gatreddi Srinu and G. Lakshmana Rao (2017), Evolution of concept of Sustainable Development, its deterrence by Emerging Climate change and a way forward. Eco. Env. & Cons. Vol 23 (3) pp: 1615-1622. (Scopus Indexed).

9. SK Chand Basha, KRS Sambasiva Rao, E Venkatanagaraju and FR Jobi Xavier (2019), An evaluation of the geographical influence on the α -amylase bioactivity of actinomycetes –isolated from Coringa Mangroves. Journal of Pharmacognosy and Phytochemistry 8 (1): pp 775-783

10. SK Chand Basha (2019), Marine Actinomycetes: a Potential Bioactive Hub for Industrial Enzymes, its Present Knowledge and Future Scope. Asian Journal of Microbiology, Biotechnology and Environmental science, Vol. 21, No. (1) pp 81-89.

11. SK Chand Basha and KRS Sambasiva Rao (2017). An Intrinsic Assessment of bioactive potentiality of Mangroves Actinomycetes, Journal of Entomology and Zoology Studies, 5(1): pp 20-26.

12. SK Chand Basha (2017), An appraisal of Biotechnological Applications of Divergent Microbes of Mangroves, Journal of Advanced Studies in Agricultural, Biological and Environmental Sciences (JABE), Volume 4., S1., pp 76-80, ISSN: 2394-2606.

13. SK Chand Basha (2017), An Outlook on the Journey of University Grants Commission (UGC) as an Indian Higher Education Promoter, International Journal of Advanced Education and Research, Volume 2; Issue 4; Page No. 81-84, ISSN: 2455-5746.

Papers Accepted for Publication:

➤ **Number of Published Books: 04**

1. SK CHAND BASHA (2022), An Overview on the National Education Policy (NEP) – 2020. ICSSR Sponsored Two-Day National Seminar on Social Innovation & Entrepreneurship in India, organized by department of Commerce & Management, K.B.N. College (Autonomous) on 25th & 26th February, 2022. Vol 3, pp: 68-70. **ISBN: 978-81-947453-1-0.**

2. SK Chand Basha (2016), An Outlook on Major Conservation measures of Mangroves at Indian and Global level. Book: Energy and Ecology, Roshan Publications, pp: 243-246. **ISBN: 978-93-86251-20-6.**

3. SK Chand Basha, P. Padmavathi and G.Lakshmana rao (2016), The Pivotal Role of Mangroves in Carbon sequestration and the role of coastal communities in Mangrove Conservation. Book: Energy and Ecology, Roshan Publications, pp: 505-508. **ISBN: 978-93-86251-20-6.**

4. SK Chand Basha, Gatreddi Srinu and G.Lakshmana rao (2016), Renewable energy sector as a Twin source for climate change mitigation and Poverty alleviation, A Perspective on Indian stand. Book: Botanicals and Phytochemicals: The Challenges and Promise for Health Care and Drug Development. Published by Department of Biochemistry,

Rev. Jacob Memorial Christian College, Ambilikkai, Tamil Nadu. pp: 287-290. ISBN: 978-93-82323-60-0.

➤ **Number of Published Chapter of Books: 02**

1. **SK Chand Basha, K.R.S. Sambasiva Rao and P. Padmavathi (2019), Status of Mangroves in India, Its Adaptations, Services, Coastal Line Protective Role, Wave Attenuation Ability, Threats & Conservation Measures: A Review.** Book: Research Trends in Life Sciences, **Chapter 2.** AkiNik Publications, Vol, 3, pp - 19-49. **Paper back ISBN: 978-93-5335-380-3; E-Book ISBN: 978-93-5335-381-0.**

2. **SK Chand Basha and Mekala Janaki Ramaiah (2024), Complex Pathophysiological Juggernaut of Alzheimer's Disease (AD) and its Pharmacological Therapeutic Strategies.** Book: Research Trends in Medical Sciences, **Chapter 8.** AkiNik Publications, Vol, 26, pp - 143-173. **ISBN: 978-93-6135-957-6. DOI: <https://doi.org/10.22271/ed.book.2635>.**

Article published in English News Paper:

- **Article title - Mangroves and the Fishermen Community - Published in the English News paper - The Hans India (Vijayawada City Tab) on Tuesday - 3rd February, 2015.**

VII. Editorial Positions, Honours, Awards and Academic Distinctions:

i. Editorial Positions and Honours:

- **Associate Editor: Journal of Alzheimer's disease (JAD) (Q1 Journal; Impact factor 4.160).**
- **Associate Editor: Frontiers in Cellular Neuroscience, Non-Neuronal Cells (Q1 Journal; Impact factor 6.147) [Jan 2023 - Dec 2023]. Frontiers Member.**
- **Associate Editor: Journal of Angiotherapy (Q3 Journal).**
- **Editorial Board Member - International Journal of Biomedical Engineering and Clinical Science.**
- **Editor (Editorial Member) - International Journal of Pharmaceutical and Healthcare Innovation (IJPHI).**
- **Review Board - Acta Scientific Neurology.**

ii. Peer review activity for several indexed journals.

- **Web of Science Verified peer reviews – 47**

Peer review activity:

- Review activity for **Asian Food Science Journal**. (1)
- Review activity for **Asian journal of biology**. (1)
- Review activity for **Asian journal of biotechnology and bioresource technology**. (1)
- Review activity for **Asian journal of medicine and health**. (1)
- Review activity for **Asian journal of microbiology and biotechnology**. (1)
- Review activity for **Asian journal of research in medical and pharmaceutical sciences**. (1)
- Review activity for **Asian Journal of Research in Zoology**. (1)
- Review activity for **Asian Plant Research Journal** (1)
- Review activity for **Chemical science international journal**. (1)
- Review activity for **International blood research & reviews**. (1)
- Review activity for **International journal of biochemistry research and review**. (2)
- Review activity for **International Journal of Environment and Climate Change**. (1)
- Review activity for **International journal of tropical disease & health**. (1)
- Review activity for **Journal of advances in medical and pharmaceutical sciences**. (2)
- Review activity for **Journal of advances in microbiology**. (2)
- Review activity for **Journal of pharmaceutical research international**. (3)
- Review activity for **Microbiology research journal international**. (3)
- Review activity for **Uttar Pradesh journal of zoology**. (1)

VIII. Travel Grants and Participation in International Academic events:**i. Travel grants and Conference Fellowship: 04**

- 1. International Society for Neurochemistry and the Asian-Pacific Society for Neurochemistry (ISN-APSN) 2022 Meeting in Honolulu, USA from August 28th to September 1st, 2022.**
- 2. International Brain Research Organization – Asia/Pacific Regional Committee (IBRO- APRC) School 2022 at Department of Biochemistry, Institute of Science, Banaras Hindu University, Varanasi, India, scheduled from 12th to 18th September 2022.**
- 3. International Society for Neurochemistry (ISN) - Mohanlal Sukhadia University (MLSU) - First Neurochemistry School 2024, at Department of Pharmaceutical Sciences, MLSU, Udaipur, Rajasthan, India from January 18th to 24th 2024.**
- 4. Selected for the Conference Fellowship for the Alzheimer’s Association International Conference 2024 (AAIC 2024). AAIC will be hosted in Philadelphia, USA and online on July 28-August 1, 2024.**

ii. Participation in International Academic events: 01

- 1. Selected as a participant in the IBRO - ARC school: IBRO-ARC (International Brain Research Organisation - African Regional Committee) workshop (online mode) entitled**

"Climate change effects on CNS re-programming and associated disorders" scheduled in Alexandria University, Egypt from 29th January to 4th February 2024.

IX. Awards and Academic Distinctions:

- 1. 'Young Scientist Award' conferred by Association of Biotechnology and Pharmacy (ABAP) (International scientific Organization) held at 17th Annual Convention of ABAP on 19th - 21st December 2023 at International Conference on Current Sustainable Agricultural, Biotechnological, Nutritional and Pharmaceutical Interventions to Combat Global Challenges (SABINP - 2023), held at KLEF Deemed to be University, Guntur, India.**
- 2. Indian Ambassador on behalf of ISN (International Society for Neurochemistry) [ISN YSSC] (2022 – 23).**
- 3. Adjunct Fellow of INDICASAT - AIP, Republic of Panama (2021).**
- 4. FTE - Fellow of Tropical Ecology: International Society for Tropical Ecology, Department of Botany, Banaras Hindu University, India.**
- 5. Young Researcher Award 2022 by InSc – Institute of Scholars.**
- 6. INNOVATION IN EDUCATION award during event International Education Award for Excellence, organized by Shri Paramhans Education & Research Foundation Trust, held on 12 - 12 – 2021, India.**
- 7. 'Proud Indian Distinguished Academician Award 2021 in Zoology' by REd TALKS INTERNATIONAL (Research Educational Talks International) in the India's 75th Independence Day Excellence Awards Conferring Ceremony on August 15th, 2021.**
- 8. Best Indian Golden Personalities Award for Educational Excellence (For the Year 2023) by Friendship Forum.**
- 9. 'Junior Scientist Award' conferred by Association of Biotechnology and Pharmacy (ABAP) (International scientific Organization) held at 13th Annual Convention of Association of ABAP on 20th - 22nd December 2019 at ICESHHD19, Vignan's Foundation for Science, Technology & Research, India.**
- 10. Brand Ambassador – EMPIEZO – AI Concept Studio (2023 - 2024).**
- 11. Appointed Member of the 'Board of Studies' in Zoology of P.B.Siddhartha Autonomous College of Arts & Science, Vijayawada, A.P, India (July 2015 to June 2017).**
- 12. Awarded Certificate of Merit (P.B.Siddhartha College of Arts and Science (Autonomous), Vijayawada) for Securing Highest Marks in Zoology in three years B.Sc. BZC Course during the academic period 2005-08, in one attempt.**
- 13. Awarded Certificate of Merit (K.B.N.College, Vijayawada) for Securing Highest Marks in Junior and Senior BiPC (English Medium) Intermediate Public Examinations.**

Academic Achievements:

1. **Short listed for the Interview by UPSC** for Recruitment to seven posts of Assistant Professor in Zoology in Government Arts and Science Colleges or Kanchi Mamunivar Centre for Post Graduate Studies in the UT of Puducherry (Vacancy No. 16020321313).
2. **Awarded Certificate of Merit (P.B.Siddhartha College of Arts and Science (Autonomous), Vijayawada) - Awarded Management Scholarship in Final Year of B.Sc -BZC during the academic year 2007-08.**
3. **Awarded Certificate for Securing Second prize in state level ZAT (Zoology Aptitude Test) 2006 on 29-07-2016 at J.M.J. College, Tenali, A.P.**
4. **Awarded Certificate for Attending as Judge for Krishna District Level 41st Jawaharlal Nehru National Science, Mathematics & Environment Exhibition For Children – 2014 at K.B.C. ZP (B) High School, Patamata, Vijayawada – 10 on 02-01-2014.**
5. **Awarded Appreciation Certificate** by the Management of P.B.Siddhartha College of Arts & Science, Vijayawada for getting 100% Results in the Course code ZOO 013A of Semester-end examinations, Nov.2013 during faculty tenure at P.B.Siddhartha College of Arts and Science (2013-14).
6. **Awarded Certificate for Securing First Prize in Quiz Competition** conducted by Debating and Quiz club, K.B.N. College, Vijayawada during Junior Intermediate education (Bipc. E).
7. **Awarded Certificate for Securing Second Place in Quiz – 2003** conducted by ICFAI University, Vijayawada on 18-12-2003 (Intermediate education).

X. Online Courses done:

- **Demystifying the Brain – NPTEL (IIT Madras) - Awarded with Elite certificate.**
- **Introduction to Machine Learning - NPTEL (IIT Kharagpur).**
- **Computational Neuroscience - NPTEL (IIT Kharagpur).**
- **Udemy Online course – Bioinformatics; Learn Docking & Mol Dynamics Simulation.**
- **Udemy Online course – Computer Aided Drug Design (CADD) from A to Z certificated.**

XI. Workshops attended:

- **Online Cloud Based Two Days Hands on Workshop: Advanced SBDD, PPI, MD Simulation organized by Schrodinger in association with CARISBD, KLEF. On 1st – 2nd March 2023.**
- **1 – Day Symposium – Cum – 2 Day Hands On Workshop on In Silico Multi – Epitope Based Peptide (MEBP) Vaccine Design held between 10th May – 12th May 2023.**
- **3-Day Technical Hands on Workshop (Online) in Next Generation Sequencing – Exome Sequencing Analysis from 26th – 28th July 2023 organized by BDG Lifesciences.**

XII: Symposiums / Workshops / Conferences / Seminars organized:

- Co-ordinator – Workshop on Innovation From Impairment Example: Autism (Sponsored by IBRO, KLEF Deemed to be University, APCOST, SBI), organised by KLEF Deemed to be University, APCOST and SBI (KLU Branch) on 12th April 2023 in KLEF Deemed to be University).
- Convener - One-Day National Level Virtual Symposium on ‘The Convergence of Biologists’ organized by Department of Zoology, KBN College (Autonomous), Vijayawada, A.P, India on 27th December, 2021.
- Organizing Secretary - Webinar on ‘Intellectual Property Rights’ (Under National Intellectual Property Awareness Mission) organized by Research Promotion & Monitoring Cell and Internal Quality Assurance Cell, KBN College (Autonomous), Vijayawada, A.P, India on 28th February, 2022.
- National Seminar on “Climate change - A Challenge to Sustainable development” (NSCCSD - 2012) Organized by the Department of Zoology, K.B.N. College, Vijayawada, A.P., India on 29th & 30th November 2012. (Organizing Committee Member).
- National Conference on Climate change impact and its Management in Indian Agriculture (CCMA 2014) Organized by Departments of Zoology & Botany, P.B. Siddhartha college of arts & science Vijayawada, A.P., India on 1st march 2014. (Organizing Committee Member).

XIII. Guest Lectures / Resource Person: 08

S.No	Guest Lectures / Resource Person
1.	SK CHAND BASHA during Faculty tenure at P.B. Siddhartha College of Arts and Science, Vijayawada, A.P., Delivered Guest lecture on ‘ Epidemics of Dengue Fever ’ to the B.Sc., B.Z.C. students of K.B.N. College, Vijayawada, A.P., India on 13-11-2013 .
2.	SK CHAND BASHA during Research Scholar (Ph. D.) tenure at Department of Zoology and Aquaculture, Acharya Nagarjuna University, Guntur, A.P Delivered Guest Lecture on ‘ Career Opportunities in Biology ’ to the B.Sc., B.Z.C. students of S.D.M.Siddhartha Mahila College, Vijayawada, A.P., India on 23-06-2014 .
3.	SK CHAND BASHA during Research Scholar tenure (Ph. D.) at Department of Zoology and Aquaculture, Acharya Nagarjuna University, Guntur, A.P Delivered Guest Lecture on ‘ Bioinformatics: Basics and it’s Applications ’ to the II.B.Sc., B.Z.C. students of S.D.M. Siddhartha Mahila College, Vijayawada, A.P., India on 06-02-2016, 10-02-2016 and 11-02-2016 .

4.	SK CHAND BASHA during Research Scholar tenure (Ph. D.) at Department of Zoology and Aquaculture, Acharya Nagarjuna University, Guntur, A.P. Delivered Guest Lecture on ‘ Fundamentals of manuscript writing and an overview on Web of sciences, Scopus as sources of quality journals and Citation indices ’ as a part of faculty training programme on 20/10/2017 at Chalapathi Institute of Pharmaceutical Sciences (CIPS) at Lam in Guntur, A.P., India
5.	SK CHAND BASHA during Research Scholar tenure (Ph. D.) at Department of Zoology and Aquaculture, Acharya Nagarjuna University, Guntur, A.P. Delivered Guest Lecture on ‘ An Insight on Google Scholar as a source of author metrics-h index and i-10 index and an Outlook on PubMed and Science Direct as literature search engines ’ as a part of faculty training programme on 21/10/2017 .at Chalapathi Institute of Pharmaceutical Sciences (CIPS) at Lam in Guntur, A.P., India
6.	Resource Person: Dr. SK CHAND BASHA during Faculty tenure at K.B.N. College, Vijayawada, A.P., Delivered Online Seminar on “ Research Methodology ” on 05th and 06th December 2020 at Chalapathi Institute of Pharmaceutical Sciences (CIPS) at Lam in Guntur, A.P., India.
7.	Resource Person: Dr. SK CHAND BASHA during Faculty tenure at K.B.N. College, Vijayawada, A.P., Conducted Awareness Programme on “ Epidemiology of Corona Infection ” on 10-03-2021 at MPPS (Mandal Parishad Primary School) - Kachavaram Village, Karempudi Mandal, Guntur - 522614, A.P., India.
8.	Resource Person: Dr. SK CHAND BASHA during Faculty tenure - Assistant Professor, Department of Zoology, Andhra Loyola College (Autonomous), Vijayawada, A.P., India delivered guest lecture on “ Orientation Lecture on Civil Services Examination ” to the students of IX, X and Intermediate of Modern Public School, Vijayawada, Andhra Pradesh, India organized on 17th September 2024.

XIV: You Tube Academic Channel:

Dr. Basha's Biology Tutorial - So far delivered 113 You Tube Biology Lessons for the benefit of Deserving and Talented students who are preparing for various exams like CSIR – NET, ICMR, UGC – NET, NEET, SET and related exams.

Link: <https://youtube.com/c/DrChandBashaShaik>

XV. International and National Conferences/Symposia/Seminars Presentations:

International Presentations - 43

National Presentations - 75

Total.....118

Selected presentations (Last 3 years)

- 1. SK Chand Basha and Mekala Janaki Ramaiah (2024), Computational Docking Analysis of APOE-TREM2 Crosstalk with Therapeutic implications in Alzheimer's disease (AD). [Selected for the Conference Fellowship for the Alzheimer's Association International Conference 2024 - AAIC 2024]. Conference abstract accepted for Publication in the journal - Alzheimer's and Dementia - Impact factor - 14. (ePoster presentation).**
- 2. SK Chand Basha (2024), Computational Structural Examination of Microglial TREM2 Receptors and its Differential Docking assessment with R47H TREM2 with potential implications in Alzheimer disease (AD) therapeutics, presented at 5th IBRO - ARC (International Brain Research Organisation - African Regional Committee) online workshop on ' Climate Change Effect on CNS Re-Programming and Associated Disorders ' - 29th January to 4th February, 2024, Virtual platform, Alexandria-Egypt. (Oral presentation).**
- 3. SK Chand Basha and Mekala Janaki Ramaiah (2024), Computational Docking Investigation of TREM2 and its mutant variant R47H-TREM2 against diverse Amyloid- β (A β) ligands with Promising Therapeutic scope in Alzheimer's disease (AD), presented at International Society for Neurochemistry (ISN) - Mohanlal Sukhadia University (MLSU) - First Neurochemistry School 2024, at Department of**

Pharmaceutical Sciences, MLSU, Udaipur, Rajasthan, India from January 18th to 24th 2024. (Oral presentation).

4. **SK Chand Basha and Mekala Janaki Ramaiah (2023), Computational Structural Investigation of TREM2 receptor and Comparative Docking analysis of TREM2 and R47H TREM2 with potential therapeutic applications in Alzheimer's disease (AD), presented at International Conference on Current Sustainable Agricultural, Biotechnological, Nutritional and Pharmaceutical Interventions to Combat Global Challenges (SABINP - 2023), organised by KLEF Deemed to be University, Guntur, India held on 19th - 21st December 2023. (Oral presentation – Awarded Young Scientist Award).**

5. **SK Chand Basha, Mekala J. Ramaiah and Jagannatha R. Kosagisharaf (2023), Computational Docking Examination of R47H-TREM2 mutant variant against Potential Amyloid- β ($A\beta$) ligands with implications in the pathophysiology of Alzheimer's disease. Proceeding of International Conclave on AMR and Future of Antibiotics (ICAFA), SRM University, Andhra Pradesh, India. November 8-9, 2023. GMPC TOP. 3(2). pp. 71. <https://doi.org/10.51585/gtop.2023.2.0035>. (Poster presentation).**

6. **SK Chand Basha, Mekala Janaki Ramaiah, Jagannatha Rao Kosagisharaf (2023), Molecular Docking Investigation of TREM2 against a family of Amyloid- β ($A\beta$) ligands with Therapeutic potential against Alzheimer's disease, presented at 4th CNS Lab Meet 2023 (CNSLM 2023), organized by Computational Neuroscience Lab, IIT Madras, held between 16th – 18th August, 2023. (Poster presentation).**

7. **SK. Chand Basha, M. Janaki Ramaiah, KS. Jagannatha Rao (2022), TREM2 – Microglia: A Novel Pathophysiological Mechanism of Alzheimer's disease (AD) with potential $A\beta$ amelioration, presented at ANUSANDHAN - AIIMS Mangalagiri Research Conference 2022 - Theme: Biomedical Research - Addressing Challenges through Collaboration organized by All India Institute of Medical Sciences Mangalagiri, Andhra Pradesh on 18-19th November 2022. (Poster presentation).**

8. **SK Chand Basha and M. Janaki Ramaiah (2022), An Assessment of Therapeutic potential of Disease Associated Microglia (DAM) in Neurodegenerative diseases, presented at an International Conference on Frontiers in Nutrition, Medical Genomics,**

and Drug Discovery (Inbix'22) organized by the Department of Biotechnology and Bioinformatics, VFSTR (Deemed to be University), Vadlamudi, Guntur, India in association with Bioclues Organization, India on 31st October – 2nd November 2022. ISBN publication – 978-93-92537-26-4. (Poster presentation).

9. SK Chand Basha and M. Janaki Ramaiah (2022), TREM2: Novel pathophysiology of Alzheimer's disease (AD) and its potential role in A β amelioration, presented at IBRO-APRC School 2022 at Banaras Hindu University, Varanasi, India, scheduled from 12th to 18th September 2022 organised by the Department of Biochemistry, Institute of Science, Banaras Hindu University, Varanasi, India (Oral presentation).

10. CHAND BASHA SK, Jagannatha Rao KS, Janaki Ramaiah M (2022), A new insight on Al-maltolate-treated aged rabbit as Alzheimer's animal model: a new approach in drug discovery. Journal of Neurochemistry, S1 - Special Issue: ISN-APSN 2022 Meeting, Honolulu (from August 28th to September 1st, 2022), Vol, 162, Issue, 1 (First and Corresponding author). [Q1 Journal with Impact factor 5.546]. (Poster presentation).

11. SK Chand Basha (2020), An Evaluation of Higher Educational Institutions of India (based on world university rankings) and the role of UGC in empowering Indian Higher Education system, presented at NAAC Sponsored National Conference on Impact of Best Practices in Quality Enhancement in Higher Education Institutions, organised by Internal Quality Assurance cell (IQAC), K.B.N. College (Autonomous), Vijayawada in collaboration with APSCHE on 4th – 5th December 2020. (Oral presentation).

XVI. Membership to academic bodies:

1. ISN Member - International Society for Neurochemistry (ISN), Geneva, Switzerland.
2. Life Member – IAN (Indian Academy of Neurosciences), India
3. Life Member - LMINS - InSc: Institute of Scholars, India
